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PAPER NUMBER

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/412,328	10/05/1999	YUICHI SATO	204552016500	9541
23-21	590 06/07/2002 & FOERSTER LLP		EXAM	INER
	LVANIA AVE, NW		WILLE, DOUGLAS A	

ART UNIT

2814 DATE MAILED: 06/07/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	V				
Cffice Action Summary		09/412,328	SATO, YUICHI	NCHI				
		Examiner	Art Unit					
		Douglas A Wille	2814					
	The MAILING DATE of this communication app	pears on the cover sheet	with the correspondence a	ddress				
Deviced for Penly								
S	A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may by within the statutory minimum of t will apply and will expire SIX (6) Me cause the application to become g date of this communication, even	a reply be timely filed hirty (30) days will be considered tim ONTHS from the mailing date of this ARANDONED (35 U.S.C. § 133).	ely. communication.				
	1) Responsive to communication(s) filed on <u>02</u>	his action is non-final.						
	2a) ☐ This action is FINAL . 2b) ☑ II	rance except for formal r	natters, prosecution as to	the merits is				
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	hisposition of Claims	1						
	4) Claim(s) 1-9 is/are pending in the application	i. awa from consideration.						
	4a) Of the above claim(s) is/are withdra	awii iioiii oonolaaratta						
	5) Claim(s) is/are allowed.							
	6)☑ Claim(s) <u>1-9</u> is/are rejected.							
	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
		701 Election regamement						
1	Application Papers	ner.						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
be held in abeyance. See 37 Crit 1.00(a).								
Applicant may not request that any objection to the distance of the proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
	Driority under 35 U.S.C. && 119 and 120							
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	a) ☐ All b) ☐ Some * c) ☐ None of:							
	1 Certified copies of the priority docume	ents have been received						
	Codified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). application detailed Office action for a list of the certified copies not received.							
	* See the attached detailed Chiec dotton for a way 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
	——————————————————————————————————————							
	a) The translation of the foleigh language provisional application of the foleigh language provision application of the foleight language provision and the foleigh language provision application of the foleigh language provision application of the foleight language provision application of the foleigh language provision application of the foleigh language provision application application of the foleigh language provision application							
	Attachment(s)	∆\ ☐ Inte	erview Summary (PTO-413) Pap	er No(s)				
	 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper Not) 5) No	tice of Informal Patent Application	on (PTO-152)				
				Part of Paper No. 8				

Application/Control Number: 09/412,328

Art Unit: 2814

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. Claims 1, 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art and Hu et al.

- 2. Applicant's admitted prior art, Figure 9, shows and SRAM comprised of CMOS devices. Hu et al. show a DTMOS device (see Figure 7 and column 1, line 8 et seq.) that has the n-well deeper than the p-well and that can be used in CMOS circuitry for the advantages shown (column 2, line 46). It would have been obvious to modify the basic device to include the DTMOS device shown by Hu et al. for the advantages shown.
- 3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art and Hu et al. and further in view of Tsui et al.
- 4. Tsui et al. show the use of dual thickness gate oxides with thinner gate oxides used for low voltage devices (column 1, line 14). Since DTMOS devices use lower voltages it would have been obvious to use thinner oxides for the lower voltage devices and to use normal gate oxides for other devices.
- 5. Claims 5, 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art and Hu et al. and further in view of Hodges et al.
- 6. Hodges et al. shows the formation of peripheral circuits for a memory device that use MOS structures (see page 368 and 369) and it would be obvious to use the DTMOS devices for these structures for the advantages shown.
- 7. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art and Hu et al. and further in view of Hodges.

Application/Control Number: 09/412,328

Art Unit: 2814

8. Hodges shows a SRAM which uses resistors as an alternative SRAM to that shown in Applicant's admitted prior art and it would be obvious to use that circuit as a design choice and

to use the DTMOS devices for the advantages shown.

Response to Arguments

9. Applicant's arguments with respect to the claims have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas A Wille whose telephone number is (703) 308-4949.

The examiner can normally be reached on M-F (6:15-3:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 308-7722 for regular

communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Douglas A. Wille

Patent Examiner

daw

June 5, 2002